

List of Current Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 - 11 (Cancelled).

12. (Currently Amended) A transmitter, comprising:
a set of equally constructed sensors for measuring a physical variable;
a set of electronic circuits, each of which is associated with a sensor, which serve to condition an electric signal, generated by the associated sensor and corresponding to the physical variable; ~~[[and]]~~
a temperature sensor associated with each set of one or more neighboring pressure sensors; and
an output unit, to which the conditioned electric signals of all said sensors are supplied, wherein said output unit:
produces a measurement signal from the conditioned electric signals and makes it available for further evaluation, processing, ~~and/or~~ display; ~~[[and]]~~
produces a statement concerning the plausibility of the measurement signal and/or a statement concerning the functional capability of individual sensors~~[[.]]~~;
and
said sensors are sensors produced in a batch process and arranged on a base plate.

13. (Currently Amended) The transmitter as claimed in claim 12, wherein:
the measurement signal is an average value, such as a median or an arithmetic means, derived from the electric signals~~[[.]] particularly a median or an arithmetic mean.~~

14. (Previously presented) The transmitter as claimed in claim 12, wherein:

the measurement signal is derived from the electric signals, and those signals that deviate from the remaining signals by more than a predetermined amount are not considered.

Claim 15 (Cancelled).

16. (Previously presented) The transmitter as claimed in claim 15, wherein: said temperature sensors serve for compensation of a temperature-dependent measurement-error.

17. (Previously presented) The transmitter as claimed in claim 15, wherein:

said evaluation unit serves for determining a plausibility of temperature-dependent signals produced by said temperature sensors.

18. (Previously presented) The transmitter as claimed in claim 12, wherein:

said sensors are pressure sensors and, for measuring a pressure-difference between a first pressure (p1) and a second pressure (p2), a first set of sensors is provided for registering the first pressure (p1) and a second set of sensors is provided for registering the second pressure (p2); and

said output unit calculates the difference between the first pressure (p1) and the second pressure (p2).

Claim 19 (Cancelled).

20. (Previously presented) The transmitter as claimed in claim 19, wherein:

said electronic circuits are arranged on said base plate.

21. (Previously presented) The transmitter as claimed in claim 12, wherein:

the transmitter issues a warning, if the functionality of a sensor falls short of a predetermined minimum functionality.

22. (Currently Amended) The transmitter as claimed in claim 12, wherein:

the transmitter issues an alarm, if plausibility ~~and/or~~ or functionality fall short of a predetermined minimum.